



# CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company



Job No.: CTCE/BBMP/W.No.12/KRIDL/CEMENT/2012-13



Date: 11.03.2013

## TEST REPORT

|                     |   |                                                                                                                                  |
|---------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| CLIENT              | : | Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.                                                             |
| AGENCY              | : | Technical Manager (West), KRIDL, Bangalore.                                                                                      |
| NAME OF THE WORK    | : | Providing Cement Concrete to Cross Roads at Abbigere Janatha Colony, in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore. |
| REFERENCE           | : | BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013                                                                                     |
| SAMPLE ID           | : | Cement                                                                                                                           |
| SAMPLES SUPPLIED BY | : | AGENCY                                                                                                                           |

The results of the tests conducted on the cement sample are as follows:

| Sl.No | Descriptions            | Test Method as per IS                       | Test Result | Requirements as per IS: 8112-1989 |
|-------|-------------------------|---------------------------------------------|-------------|-----------------------------------|
| 1     | a) Initial Setting Time | IS-4031 (Part -5)                           | 135 Minutes | Not Less than 30 Minutes          |
|       | b) Final Setting Time   | IS-4031 (Part -5)                           | 475 Minutes | Not More than 600 Minutes         |
| 2     | Soundness               | IS-4031 (Part 3) by the Le Chatelier method | 1 mm        | Not more than 10 mm               |
| 3     | Standard Consistency    | IS 4031 (Part -4)                           | 28.50 %     |                                   |



Note:

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# CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No.: CTCE/BBMP/W.No.12/KRIDL/SAND/2012-13



: 11.03.2013

## TEST REPORT ON FINE AGGREGATES (SAND) IS 383-1970 (RA- 2002)

**Client** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : Technical Manager (West), KRIDL, Bangalore.

**Name of Work** : Providing Cement Concrete to Cross Roads at Abbigere Janatha Colony, in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

**Reference** : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013

**Date of Testing** : 11.03.2013

**Material** : Sand

Total Wt. of Aggregates in gms      **2000**

| Is Sieve Size in<br>mm | Weight Retained<br>(gm) | Retained<br>Weight in % | Cumulative<br>Retained<br>Weight in % | Cumulative<br>Weight Passing in<br>% | Spec.Limits<br>For Zone-II |
|------------------------|-------------------------|-------------------------|---------------------------------------|--------------------------------------|----------------------------|
| 10                     | 0                       | 0                       | 0                                     | 100                                  | 100                        |
| 4.75                   | 98                      | 4.90                    | 4.90                                  | 95.1                                 | 90-100                     |
| 2.36                   | 226                     | 11.30                   | 16.20                                 | 83.8                                 | 75-100                     |
| 1.18                   | 493                     | 24.65                   | 40.85                                 | 59.2                                 | 55-90                      |
| 600 Micron             | 428                     | 21.40                   | 62.25                                 | 37.8                                 | 35-59                      |
| 300 Micron             | 485                     | 24.25                   | 86.50                                 | 13.5                                 | 8-30                       |
| 150 Micron             | 216                     | 10.80                   | 97.30                                 | 2.7                                  | 0-10                       |

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Job No: CTCE/BBMP/W.No.12/KRIDL/AGG/2012-13



: 11.03.2013

## TEST REPORT ON COARSE AGGREGATES IS 383-1970 (RA- 2002)

**Client** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

**Agency** : Technical Manager (West), KRIDL, Bangalore.

**Name of Work** : Providing Cement Concrete to Cross Roads at Abbigere Janatha Colony, in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

**Reference** : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013

**Date of Testing** : 11.03.2013

**Material** : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

| Is Sieve Size in mm | Weight Retained (gm) | Retained Weight in % | Cumulative Retained Weight in % | Cumulative Weight Passing in % | Spec.Limits |
|---------------------|----------------------|----------------------|---------------------------------|--------------------------------|-------------|
| 80                  | 0                    | 0                    | 0                               | 100                            | 100         |
| 40                  | 995                  | 3.83                 | 3.83                            | 96.17                          | 95-100      |
| 20                  | 14325                | 55.10                | 58.92                           | 41.08                          | 30-70       |
| 10                  | 7785                 | 29.94                | 88.87                           | 11.13                          | 10-35       |
| 4.75                | 2565                 | 9.87                 | 98.73                           | 1.27                           | 0           |

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Job No: CTC/E/BBMP/W.No.12/KRIDL/STEEL/2012-13

13.03.2013



## TEST REPORT ON REINFORCEMENT STEEL

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing Cement Concrete to Cross Roads at Abbigeri Janatha Colony, in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13 Dated: 08.03.2013

Date of Test : 13.03.2013

Technical Reference : IS: 1786-2008

| Sl. No | Nominal size (dia) (mm) | Mass per metre (Kg/mtr) | TENSILE STRENGTH                                  |                                                      |                                 | Bend Test | Rebend Test |
|--------|-------------------------|-------------------------|---------------------------------------------------|------------------------------------------------------|---------------------------------|-----------|-------------|
|        |                         |                         | 0.20% proof stress/Yield stress N/mm <sup>2</sup> | Tensile strength (Ultimate stress) N/mm <sup>2</sup> | Elongation percent gauge length |           |             |
| 1      | 10                      | 0.89                    | 513                                               | 546                                                  | 13.25                           | O.K       | O.K         |
| 2      | 12                      | 1.58                    | 515                                               | 550                                                  | 13.50                           | O.K       | O.K         |



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Job No.: CTCE/BBMP/W.No.12/KRIDL/CUBE/2012-13



15.04.2013

## TEST REPORT ON CONCRETE CUBES

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager (West), KRIDL, Bangalore.

Name of the work : Providing Cement Concrete to Cross Roads at Abbigere Janatha Colony, in Shettyhalli Sub Division in Ward No.12, BBMP, Bangalore.

Reference : BBMP/AIEF/SSD/DZ/PR/2012-13

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm<sup>2</sup>

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M<sub>15</sub>

Compressive Strength as on : 28<sup>th</sup> day

| Sl.No. | Date of casting | Date of testing | Weight of cube (Kg) | Failure load (KN) | Compressive strength (N/mm <sup>2</sup> ) |
|--------|-----------------|-----------------|---------------------|-------------------|-------------------------------------------|
| 1      | 18.03.2013      | 15.04.2013      | 8.264               | 374.9             | 16.66                                     |
| 2      | 18.03.2013      | 15.04.2013      | 8.395               | 387.8             | 17.24                                     |
| 3      | 18.03.2013      | 15.04.2013      | 8.428               | 392.6             | 17.45                                     |

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